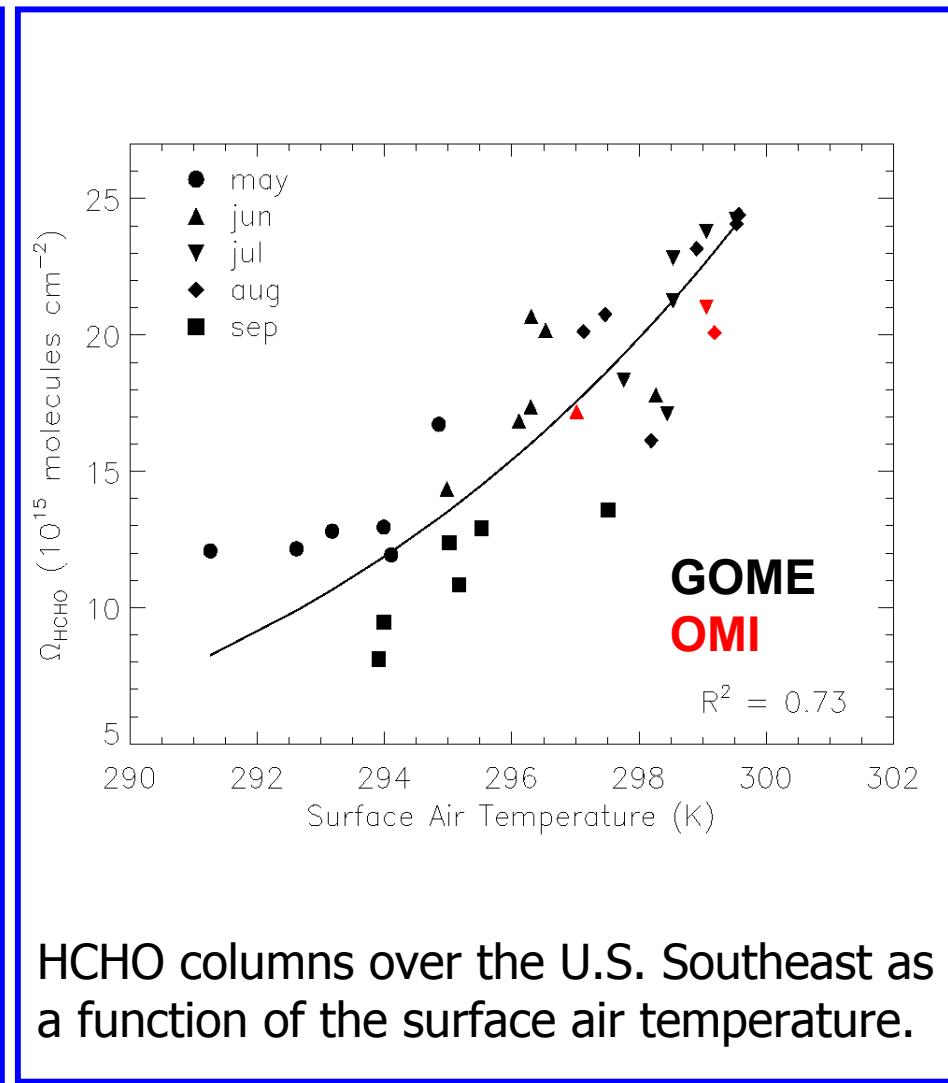
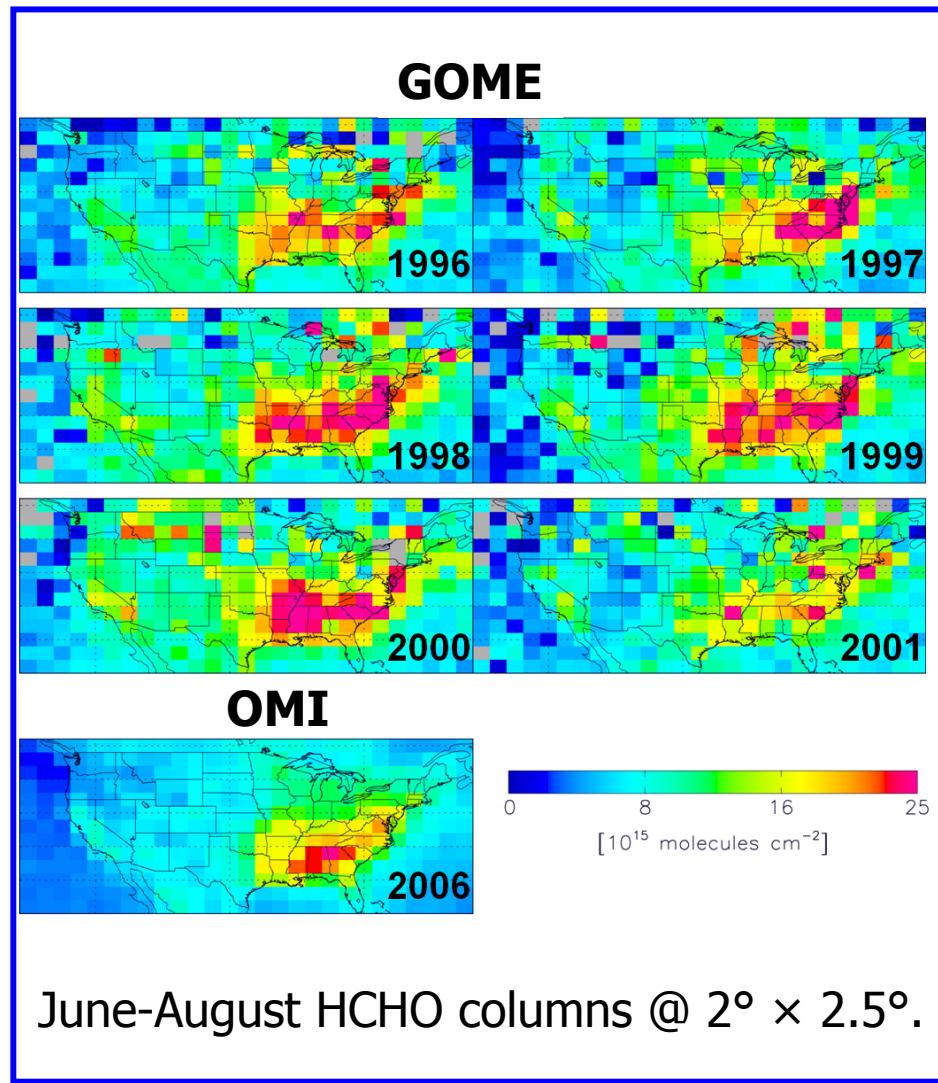


OMI HCHO & AQ:

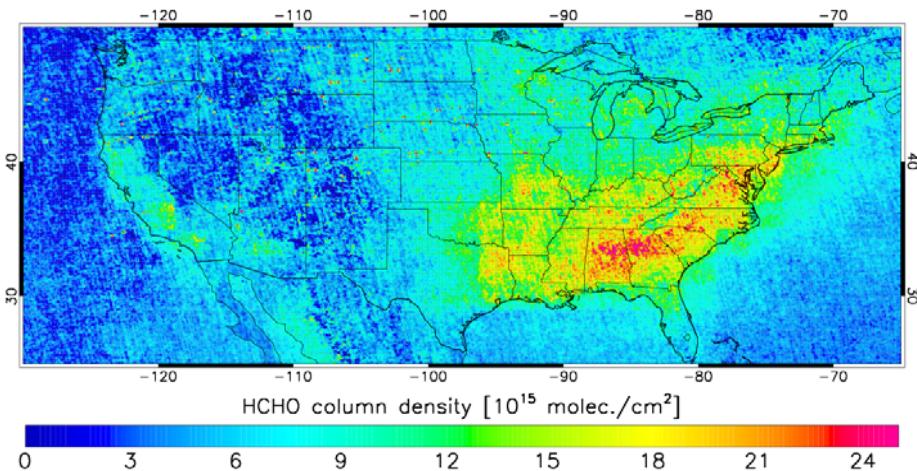
Latest OMI HCHO product consistent with GOME over the US Southeast (to 2-14%) after correcting for year-to-year temperature differences



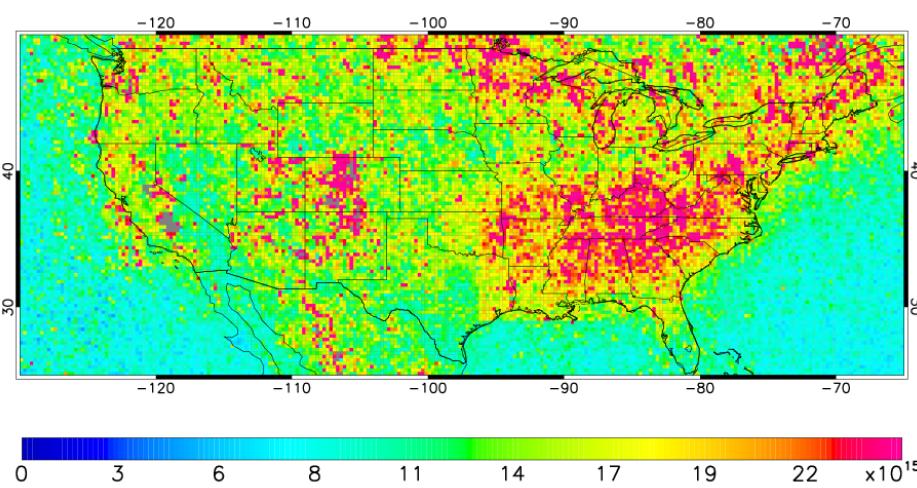
OMI HCHO & AQ:

But noise limits the usable spatial/temporal resolution

OMI HCHO: June-August 2006



OMI HCHO Standard Deviation

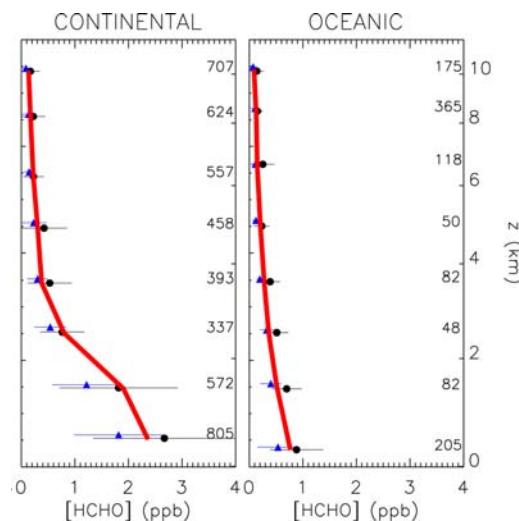


Noise in OMI HCHO is ~ order highest observed columns.

$$1\text{SD} \sim 1-3 \times 10^{16} \text{ molec/cm}^2$$

→ 11-25 measurements to reduce std. error to
~ 0.6×10^{16} molec/cm 2
(i.e. ~ 2 ppb in BL)

→ 2 weeks or 1.5° - 2° resolution



Aircraft measurements/GEOS-Chem model results over N. America